2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

### ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Stantec 1060 Andrew Drive Suite 140 West Chester PA 19380

November 05, 2014

Project: MHIC Annual Sampling

Submittal Date: 10/23/2014 Group Number: 1513343 PO Number: MHIC ANNUAL SAMPLING State of Sample Origin: PA

Client Sample Description	<u>Lancaster Labs (LL) #</u>
MW-128_20141023 Grab Groundwater	7648543
MW-129_20141023 Grab Groundwater	7648544
MW-15_20141023 Grab Groundwater	7648545
MW-482_20141023 Grab Groundwater	7648546
MW-109_20141023 Grab Groundwater	7648547
RW-13_20141023 Grab Groundwater	7648548
Trip Blank Water	7648549

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO

Stantec

Attn: Stephanie Andrews

Respectfully Submitted,

Amek Carter Specialist

(717) 556-7252



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-128 20141023 Grab Groundwater

MHIC Annual Sampling MW-128

LL Sample # WW 7648543 LL Group # 1513343 Account # 11183

Project Name: MHIC Annual Sampling

Submitted: 10/23/2014 17:05

Reported: 11/05/2014 08:35

Collected: 10/23/2014 08:55 by CD Stantec

1060 Andrew Drive

Suite 140

West Chester PA 19380

MH128

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
10943	Benzene		71-43-2	N.D.	0.5	1
10943	1,2-Dichloroethane		107-06-2	N.D.	0.5	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1
10943	Isopropylbenzene		98-82-8	N.D.	0.5	1
10943	Methyl Tertiary Buty	yl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	1,2,4-Trimethylbenze	ene	95-63-6	N.D.	0.5	1
10943	1,3,5-Trimethylbenze	ene	108-67-8	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC/MS	Semivolatiles	SW-846	8270C	ug/l	ug/l	
07805	Anthracene		120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene		56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene		50-32-8	N.D.	0.1	1
07805	Benzo(b) fluoranthen	е	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylen	е	191-24-2	N.D.	0.1	1
07805	Chrysene		218-01-9	N.D.	0.1	1
07805	Fluorene		86-73-7	N.D.	0.1	1
07805	Naphthalene		91-20-3	N.D.	0.1	1
07805	Phenanthrene		85-01-8	N.D.	0.1	1
07805	Pyrene		129-00-0	N.D.	0.1	1
GC Mis	scellaneous	SW-846	8011	ug/l	ug/l	
10398	Ethylene dibromide		106-93-4	N.D.	0.0097	1
Metals	s Dissolved	SW-846	6020	ug/l	ug/l	
06035	Lead		7439-92-1	N.D.	0.082	1

#### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15. This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
10943	UST Unleaded/Leaded minus NAPH	SW-846 8260B	1	Z143002AA	10/27/2014	16:55	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z143002AA	10/27/2014	16:55	Sarah A Guill	1
07805	PAHs by 8270	SW-846 8270C	1	14298WAE026	11/03/2014	18:15	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	14298WAE026	10/27/2014	08:20	Katheryne V Sponheimer	1
10398	EDB in Wastewater	SW-846 8011	1	142980004A	10/29/2014	18:08	Jessica L Miller	1
07786	EDB Extraction	SW-846 8011	1	142980004A	10/26/2014	13:00	Kelli M Barto	1
06035	Lead	SW-846 6020	1	142976050004A	10/28/2014	04:30	Choon Y Tian	1



## **Analysis Report**

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-128 20141023 Grab Groundwater

MHIC Annual Sampling MW-128

LL Sample # WW 7648543 LL Group # 1513343 Account # 11183

Project Name: MHIC Annual Sampling

Submitted: 10/23/2014 17:05

Reported: 11/05/2014 08:35

Collected: 10/23/2014 08:55 by CD Stantec

1060 Andrew Drive

Suite 140

West Chester PA 19380

MH128

Laboratory Sample Analysis Record

 CAT
 Analysis
 Name
 Method
 Trial#
 Batch#
 Analysis
 Analysis
 Analyst
 Dilution

 No.
 06050
 ICP/MS SW-846 Water
 SW-846 3010A
 1
 142976050004
 10/27/2014
 09:24
 Micaela L Dishong
 1

Digest modified



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-129 20141023 Grab Groundwater

MHIC Annual Sampling MW-129

LL Sample # WW 7648544 LL Group # 1513343 Account # 11183

Project Name: MHIC Annual Sampling

Submitted: 10/23/2014 17:05

Reported: 11/05/2014 08:35

Collected: 10/23/2014 10:10 by CD Stantec

1060 Andrew Drive

Suite 140

West Chester PA 19380

MH129

CAT No.	Analysis Name		CAS Number	As Rec Resul	ceived t	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l		ug/l	
10943	Benzene		71-43-2	N.D.		0.5	1
10943	1,2-Dichloroethane		107-06-2	N.D.		0.5	1
10943	Ethylbenzene		100-41-4	N.D.		0.5	1
10943	Isopropylbenzene		98-82-8	0.8	J	0.5	1
10943	Methyl Tertiary Buty	yl Ether	1634-04-4	7		0.5	1
10943	Toluene		108-88-3	N.D.		0.5	1
10943	1,2,4-Trimethylbenze	ene	95-63-6	N.D.		0.5	1
10943	1,3,5-Trimethylbenze	ene	108-67-8	N.D.		0.5	1
10943	Xylene (Total)		1330-20-7	N.D.		0.5	1
GC/MS	Semivolatiles	SW-846	8270C	ug/l		ug/l	
07805	Anthracene		120-12-7	0.3	J	0.1	1
07805	Benzo(a)anthracene		56-55-3	N.D.		0.1	1
07805	Benzo(a)pyrene		50-32-8	N.D.		0.1	1
07805	Benzo(b) fluoranthene	е	205-99-2	N.D.		0.1	1
07805	Benzo(g,h,i)perylene	е	191-24-2	0.2	J	0.1	1
07805	Chrysene		218-01-9	0.2	J	0.1	1
07805	Fluorene		86-73-7	2		0.1	1
07805	Naphthalene		91-20-3	N.D.		0.1	1
07805	Phenanthrene		85-01-8	N.D.		0.1	1
07805	Pyrene		129-00-0	0.9		0.1	1
GC Mis	scellaneous	SW-846	8011	ug/l		ug/l	
	Ethylene dibromide		106-93-4	N.D.		0.0097	1
Metals	Dissolved	SW-846	6020	ug/l		ug/l	
06035		0.10	7439-92-1	N.D.		0.082	1

### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15. This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor
10943	UST Unleaded/Leaded minus NAPH	SW-846 8260B	1	Z143002AA	10/27/2014	17:19	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z143002AA	10/27/2014	17:19	Sarah A Guill	1
07805	PAHs by 8270	SW-846 8270C	1	14298WAE026	11/03/2014	18:45	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	14298WAE026	10/27/2014	08:20	Katheryne V Sponheimer	1
10398	EDB in Wastewater	SW-846 8011	1	142980004A	10/28/2014	02:22	Jessica L Miller	1
07786	EDB Extraction	SW-846 8011	1	142980004A	10/26/2014	13:00	Kelli M Barto	1
06035	Lead	SW-846 6020	1	142976050004A	10/28/2014	04:31	Choon Y Tian	1



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax; 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-129 20141023 Grab Groundwater

MHIC Annual Sampling MW-129

LL Sample # WW 7648544 LL Group # 1513343 Account # 11183

Project Name: MHIC Annual Sampling

Collected: 10/23/2014 10:10 by CD

1060 Andrew Drive

Suite 140

Stantec

West Chester PA 19380

Reported: 11/05/2014 08:35

Submitted: 10/23/2014 17:05

MH129

#### Laboratory Sample Analysis Record

 CAT
 Analysis
 Name
 Method
 Trial#
 Batch#
 Analysis
 Analysis
 Analyst
 Dilution

 No.
 10050
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## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-15 20141023 Grab Groundwater

MHIC Annual Sampling MW-15

LL Sample # WW 7648545 LL Group # 1513343 Account # 11183

Project Name: MHIC Annual Sampling

Submitted: 10/23/2014 17:05

Collected: 10/23/2014 11:05 by CD Stantec

1060 Andrew Drive

Suite 140

Reported: 11/05/2014 08:35 West Chester PA 19380

#### MH015

CAT No.	Analysis Name		CAS Number	As Rec Result		М	s Received ethod etection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l		u	g/l	
10943	Benzene		71-43-2	N.D.		0	.5	1
10943	1,2-Dichloroethane		107-06-2	N.D.		0	.5	1
10943	Ethylbenzene		100-41-4	N.D.		0	.5	1
10943	Isopropylbenzene		98-82-8	N.D.		0	.5	1
10943	Methyl Tertiary Buty	yl Ether	1634-04-4	7		0	.5	1
10943	Toluene		108-88-3	N.D.		0	.5	1
10943	1,2,4-Trimethylbenze	ene	95-63-6	N.D.		0	.5	1
10943	1,3,5-Trimethylbenze	ene	108-67-8	N.D.		0	.5	1
10943	Xylene (Total)		1330-20-7	N.D.		0	.5	1
GC/MS	Semivolatiles	SW-846	8270C	ug/l		u	g/1	
07805	Anthracene		120-12-7	0.1	J	0	.1	1
07805	Benzo(a)anthracene		56-55-3	N.D.		0	.1	1
07805	Benzo(a)pyrene		50-32-8	N.D.		0	.1	1
07805	Benzo(b) fluoranthene	9	205-99-2	N.D.		0	.1	1
07805	Benzo(g,h,i)perylene	9	191-24-2	N.D.		0	.1	1
07805	Chrysene		218-01-9	N.D.		0	.1	1
07805	Fluorene		86-73-7	N.D.		0	.1	1
07805	Naphthalene		91-20-3	N.D.		0	.1	1
07805	Phenanthrene		85-01-8	N.D.		0	.1	1
07805	Pyrene		129-00-0	N.D.		0	.1	1
GC Mis	scellaneous	SW-846	8011	ug/l		u	g/l	
	Ethylene dibromide		106-93-4	N.D.		0	.0096	1
Metals	Dissolved	SW-846	6020	ug/l		u	g/l	
06035	Lead		7439-92-1	0.33	J	0	.082	1

#### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15. This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	<b></b>	Analyst	Dilution Factor
10943	UST Unleaded/Leaded minus	SW-846 8260B	1	Z143002AA	10/27/2014	17:43	Sarah A Guill	1
10040	NAPH	DW 040 0200D	_	2145002AA	10/2//2014	17.43	baran A Guili	_
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z143002AA	10/27/2014	17:43	Sarah A Guill	1
07805	PAHs by 8270	SW-846 8270C	1	14298WAE026	11/03/2014	19:15	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	14298WAE026	10/27/2014	08:20	Katheryne V	1
							Sponheimer	
10398	EDB in Wastewater	SW-846 8011	1	142980004A	10/28/2014	03:09	Jessica L Miller	1
07786	EDB Extraction	SW-846 8011	1	142980004A	10/26/2014	13:00	Kelli M Barto	1
06035	Lead	SW-846 6020	1	1429760500044	10/28/2014	04.33	Choon V Tian	1



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-15 20141023 Grab Groundwater

MHIC Annual Sampling MW-15

LL Sample # WW 7648545 LL Group # 1513343 Account # 11183

Project Name: MHIC Annual Sampling

Submitted: 10/23/2014 17:05

Reported: 11/05/2014 08:35

Collected: 10/23/2014 11:05 by CD Stantec

1060 Andrew Drive

Suite 140

West Chester PA 19380

MH015

Laboratory Sample Analysis Record

Method Analysis Name Trial# Batch# CAT Analysis Analyst Dilution No. Date and Time 06050 ICP/MS SW-846 Water SW-846 3010A 142976050004 10/27/2014 09:24 Micaela L Dishong 1

modified

Digest



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-482 20141023 Grab Groundwater

MHIC Annual Sampling MW-482

LL Sample # WW 7648546 LL Group # 1513343 Account # 11183

Project Name: MHIC Annual Sampling

Submitted: 10/23/2014 17:05

Reported: 11/05/2014 08:35

Collected: 10/23/2014 09:18 by CD Stantec

1060 Andrew Drive

Suite 140

West Chester PA 19380

MH482

CAT No.	Analysis Name		CAS Number	As Rece Result	ived	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l		ug/l	
10943	Benzene		71-43-2	N.D.		0.5	1
10943	1,2-Dichloroethane		107-06-2	N.D.		0.5	1
10943	Ethylbenzene		100-41-4	N.D.		0.5	1
10943	Isopropylbenzene		98-82-8	8		0.5	1
10943	Methyl Tertiary Buty	yl Ether	1634-04-4	N.D.		0.5	1
10943	Toluene		108-88-3	N.D.		0.5	1
10943	1,2,4-Trimethylbenze	ene	95-63-6	N.D.		0.5	1
10943	1,3,5-Trimethylbenze	ene	108-67-8	N.D.		0.5	1
10943	Xylene (Total)		1330-20-7	N.D.		0.5	1
GC/MS	Semivolatiles	SW-846	8270C	ug/l		ug/l	
07805	Anthracene		120-12-7	0.3	J	0.1	1
07805	Benzo(a)anthracene		56-55-3	N.D.		0.1	1
07805	Benzo(a)pyrene		50-32-8	N.D.		0.1	1
07805	Benzo(b) fluoranthen	е	205-99-2	N.D.		0.1	1
07805	Benzo(g,h,i)perylen	е	191-24-2	N.D.		0.1	1
07805	Chrysene		218-01-9	N.D.		0.1	1
07805	Fluorene		86-73-7	4		0.1	1
07805	Naphthalene		91-20-3	N.D.		0.1	1
07805	Phenanthrene		85-01-8	4		0.1	1
07805	Pyrene		129-00-0	0.5	J	0.1	1
GC Mis	scellaneous	SW-846	8011	ug/l		ug/l	
10398	Ethylene dibromide		106-93-4	N.D.		0.0097	1
Metals	s Dissolved	SW-846	6020	ug/l		ug/l	
06035		2 010	7439-92-1	N.D.		0.082	1

#### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15. This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
10943	UST Unleaded/Leaded minus NAPH	SW-846 8260B	1	Z143002AA	10/27/2014	18:07	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z143002AA	10/27/2014	18:07	Sarah A Guill	1
07805	PAHs by 8270	SW-846 8270C	1	14298WAE026	11/03/2014	19:45	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	14298WAE026	10/27/2014	08:20	Katheryne V	1
							Sponheimer	
10398	EDB in Wastewater	SW-846 8011	1	142980004A	10/28/2014	03:24	Jessica L Miller	1
07786	EDB Extraction	SW-846 8011	1	142980004A	10/26/2014	13:00	Kelli M Barto	1
06035	Lead	SW-846 6020	1	1429760500044	10/28/2014	04.35	Choon V Tian	1



# **Analysis Report**

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax; 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-482 20141023 Grab Groundwater

MHIC Annual Sampling MW-482

LL Sample # WW 7648546 LL Group # 1513343 Account # 11183

Project Name: MHIC Annual Sampling

Submitted: 10/23/2014 17:05

Reported: 11/05/2014 08:35

Collected: 10/23/2014 09:18 by CD Stantec

1060 Andrew Drive

Suite 140

West Chester PA 19380

MH482

#### Laboratory Sample Analysis Record

 CAT
 Analysis
 Name
 Method
 Trial#
 Batch#
 Analysis
 Analysis
 Analyst
 Dilution

 No.
 10050
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## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-109 20141023 Grab Groundwater

MHIC Annual Sampling MW-109

LL Sample # WW 7648547 LL Group # 1513343 Account # 11183

Project Name: MHIC Annual Sampling

Submitted: 10/23/2014 17:05

Collected: 10/23/2014 11:20 by CD Stantec

1060 Andrew Drive

Suite 140

Reported: 11/05/2014 08:35 West Chester PA 19380

#### MH109

CAT No.	Analysis Name		CAS Number As Received Result		As Received Method Detection Limit	Dilution Factor			
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l				
10943	Benzene		71-43-2	230	5	10			
10943	1,2-Dichloroethane		107-06-2	N.D.	0.5	1			
10943	Ethylbenzene		100-41-4	N.D.	0.5	1			
10943	Isopropylbenzene		98-82-8	N.D.	0.5	1			
10943	Methyl Tertiary Buty	yl Ether	1634-04-4	5	0.5	1			
10943	Toluene		108-88-3	48	0.5	1			
10943	1,2,4-Trimethylbenze	ene	95-63-6	N.D.	0.5	1			
10943	1,3,5-Trimethylbenze	ene	108-67-8	N.D.	0.5	1			
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1			
GC/MS	Semivolatiles	SW-846	8270C	ug/l	ug/l				
07805	Anthracene		120-12-7	N.D.	0.1	1			
07805	Benzo(a)anthracene		56-55-3	N.D.	0.1	1			
07805	Benzo(a)pyrene		50-32-8	N.D.	0.1	1			
07805	Benzo(b) fluoranthene	9	205-99-2	N.D.	0.1	1			
07805	Benzo(g,h,i)perylene	9	191-24-2	N.D.	0.1	1			
07805	Chrysene		218-01-9	N.D.	0.1	1			
07805	Fluorene		86-73-7	N.D.	0.1	1			
07805	Naphthalene		91-20-3	N.D.	0.1	1			
07805	Phenanthrene		85-01-8	N.D.	0.1	1			
07805	Pyrene		129-00-0	N.D.	0.1	1			
acce corre The time	The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:  The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.								
	scellaneous	SW-846	8011	ug/l	ug/l				
10398	Ethylene dibromide		106-93-4	N.D.	0.0096	1			
Metals	Dissolved	SW-846	6020	ug/l	ug/l				
06035	Lead		7439-92-1	N.D.	0.082	1			

#### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15. This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor
10943	UST Unleaded/Leaded minus	SW-846 8260B	1	Z143002AA	10/27/2014	18:31	Sarah A Guill	1



## **Analysis Report**

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-109 20141023 Grab Groundwater

MHIC Annual Sampling MW-109

LL Sample # WW 7648547 LL Group # 1513343 Account # 11183

Project Name: MHIC Annual Sampling

Submitted: 10/23/2014 17:05

Reported: 11/05/2014 08:35

Collected: 10/23/2014 11:20 by CD Stantec

1060 Andrew Drive

Suite 140

West Chester PA 19380

MH109

				_	_				
CA No		Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
10	943	UST Unleaded/Leaded minus NAPH	SW-846 8260B	1	Z143022AA	10/29/2014	16:45	Daniel H Heller	10
01	163	GC/MS VOA Water Prep	SW-846 5030B	1	Z143002AA	10/27/2014	18:31	Sarah A Guill	1
01	163	GC/MS VOA Water Prep	SW-846 5030B	2	Z143022AA	10/29/2014	16:45	Daniel H Heller	10
07	805	PAHs by 8270	SW-846 8270C	1	14298WAH026	11/01/2014	07:28	Brian K Graham	1
07	807	BNA Water Extraction	SW-846 3510C	1	14298WAH026	10/27/2014	09:15	Jessica M Velez	1
10	398	EDB in Wastewater	SW-846 8011	1	142980004A	10/28/2014	03:40	Jessica L Miller	1
07	786	EDB Extraction	SW-846 8011	1	142980004A	10/26/2014	13:00	Kelli M Barto	1
06	035	Lead	SW-846 6020	1	142976050004A	10/28/2014	04:42	Choon Y Tian	1
06	050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	142976050004	10/27/2014	09:24	Micaela L Dishong	1



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: RW-13 20141023 Grab Groundwater

MHIC Annual Sampling RW-13

LL Sample # WW 7648548 LL Group # 1513343 Account # 11183

Project Name: MHIC Annual Sampling

Submitted: 10/23/2014 17:05

Reported: 11/05/2014 08:35

Collected: 10/23/2014 10:09 by CD Stantec

1060 Andrew Drive

Suite 140

West Chester PA 19380

MHR13

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
10943	Benzene		71-43-2	N.D.	0.5	1
10943	1,2-Dichloroethane		107-06-2	N.D.	0.5	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1
10943	Isopropylbenzene		98-82-8	N.D.	0.5	1
10943	Methyl Tertiary Buty	yl Ether	1634-04-4	1	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	1,2,4-Trimethylbenze	ene	95-63-6	N.D.	0.5	1
10943	1,3,5-Trimethylbenze	ene	108-67-8	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1
				/3	43	
•		SW-846		ug/l	ug/l	
07805	Anthracene		120-12-7	0.4 J	0.1	1
07805	Benzo(a)anthracene		56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene		50-32-8	N.D.	0.1	1
07805	Benzo(b) fluoranthene		205-99-2	0.1 J	0.1	1
07805	Benzo(g,h,i)perylene	е	191-24-2	N.D.	0.1	1
07805	Chrysene		218-01-9	N.D.	0.1	1
07805	Fluorene		86-73-7	0.6	0.1	1
07805	Naphthalene		91-20-3	N.D.	0.1	1
07805	Phenanthrene		85-01-8	N.D.	0.1	1
07805	Pyrene		129-00-0	0.8	0.1	1
GC Mis	scellaneous	SW-846	8011	ug/l	ug/l	
	Ethylene dibromide	DW-040	106-93-4	N.D.	0.0096	1
10390	Ecultene dipromitae		100-93-4	и.р.	0.0090	Τ
Metals	Dissolved	SW-846	6020	ug/l	ug/l	
06035	Lead		7439-92-1	N.D.	0.082	1

### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15. This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
10943	UST Unleaded/Leaded minus NAPH	SW-846 8260B	1	Z143002AA	10/27/2014	18:55	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z143002AA	10/27/2014	18:55	Sarah A Guill	1
07805	PAHs by 8270	SW-846 8270C	1	14298WAH026	11/01/2014	07:58	Brian K Graham	1
07807	BNA Water Extraction	SW-846 3510C	1	14298WAH026	10/27/2014	09:15	Jessica M Velez	1
10398	EDB in Wastewater	SW-846 8011	1	142980004A	10/28/2014	03:55	Jessica L Miller	1
07786	EDB Extraction	SW-846 8011	1	142980004A	10/26/2014	13:00	Kelli M Barto	1
06035	Lead	SW-846 6020	1	142976050004A	10/28/2014	04:44	Choon Y Tian	1



## **Analysis Report**

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: RW-13 20141023 Grab Groundwater

MHIC Annual Sampling RW-13

LL Sample # WW 7648548 LL Group # 1513343 Account # 11183

Project Name: MHIC Annual Sampling

Submitted: 10/23/2014 17:05

Reported: 11/05/2014 08:35

Collected: 10/23/2014 10:09 by CD Stantec

1060 Andrew Drive

Suite 140

West Chester PA 19380

MHR13

#### Laboratory Sample Analysis Record

 CAT
 Analysis
 Name
 Method
 Trial#
 Batch#
 Analysis
 Analysis
 Analyst
 Dilution

 No.
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## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: Trip Blank Water

MHIC Annual Sampling TB

LL Sample # WW 7648549 LL Group # 1513343 Account # 11183

Project Name: MHIC Annual Sampling

Submitted: 10/23/2014 17:05

Collected: 10/23/2014 Stantec

1060 Andrew Drive

Suite 140

Reported: 11/05/2014 08:35 West Chester PA 19380

MH-TB

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
10943	Benzene		71-43-2	N.D.	0.5	1
10943	1,2-Dichloroethane		107-06-2	N.D.	0.5	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1
10943	Isopropylbenzene		98-82-8	N.D.	0.5	1
10943	Methyl Tertiary But	yl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	1,2,4-Trimethylbenze	ene	95-63-6	N.D.	0.5	1
10943	1,3,5-Trimethylbenze	ene	108-67-8	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Mis	scellaneous	SW-846	8011	ug/l	ug/l	
10398	Ethylene dibromide		106-93-4	N.D.	0.0097	1

#### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST Unleaded/Leaded minus NAPH	SW-846 8260B	1	Z143002AA	10/27/2014 19:19	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z143002AA	10/27/2014 19:19	Sarah A Guill	1
10398	EDB in Wastewater	SW-846 8011	1	142980004A	10/28/2014 04:11	Jessica L Miller	1
07786	EDB Extraction	SW-846 8011	1	142980004A	10/26/2014 13:00	Kelli M Barto	1



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### Quality Control Summary

Client Name: Stantec Group Number: 1513343

Reported: 11/05/14 at 08:35 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

Batch number: Z143002AA	Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	RPD	RPD <u>Max</u>
Renzeme	Batch number: 7143002AA	Sample num	nher(s) · 76	48543-7648	549				
1,2-Dichloroethane							78-120		
Sthylbenzene									
Refry   Tertiary Buty  Ether   N.D.   0.5   ug/1   100   80-120   N.D.   0.5   ug/1   98   80-120   N.D.   0.5   ug/1   100   80-120   N.D.   0.5   ug/1   89   90   78-120   2   30   N.D.   0.5   ug/1   89   90   78-120   2   30   N.D.   0.5   ug/1   89   90   78-120   2   30   N.D.   0.5   ug/1   101   82-116   N.D.   0.1   ug/1   101   82-116   N.D.   0.1   ug/1   104   82-116   N.D.   0.1   ug/1   104   82-116   N.D.   0.1   ug/1   104   82-116   N.D.   0.1   ug/1   109   82-121   N.D.   0.1   ug/1   109   80-120   N.D.   0.1   ug/1   100   N.D.   0.1   ug/									
Methyl Tertiary Butyl Ether   N.D.   0.5   ug/l   89   75-120   Toluene   N.D.   0.5   ug/l   100   80-120   1,2,4-Trimethylbenzene   N.D.   0.5   ug/l   100   80-120   1,3,5-Trimethylbenzene   N.D.   0.5   ug/l   100   80-120   100   80-120   100									
Toluen									
1,2,4-Trimethylbenzene									
1,3,5-Trimethylbenzene   N.D.									
## Renzence   N.D.   0.5   ug/l   100   80-120    Batch number: Z143022AA   Sample number(s): 7648547   89   90   78-120   2   30    Batch number: 14298WAE026   Sample number(s): 7648546   Anthracene   N.D.   0.1   ug/l   101   82-116   82-120									
Batch number: Z143022AA   Sample number(s): 7648547   Sug/l 89 90 78-120 2 30    Batch number: 14298WAE026   Sample number(s): 7648543-7648546   Sample number(s): 7648544   Sample number(s): 7648543-7648548   Sample number(s): 7648547-7648548   S									
Benzene N.D. 0.5 ug/l 89 90 78-120 2 30  Batch number: 14298WAE026	Aylene (local)	N.D.	0.5	ug/I	100		80-120		
Batch number: 14298WAE026		-							
Anthracene N.D. 0.1 ug/1 101 82-116 Benzo(a) anthracene N.D. 0.1 ug/1 96 81-126 Benzo(a) pyrene N.D. 0.1 ug/1 104 82-116 Benzo(b) fluoranthene N.D. 0.1 ug/1 109 82-121 Benzo(g,h,i)perylene N.D. 0.1 ug/1 106 76-128 Chrysene N.D. 0.1 ug/1 100 80-117 Naphthalene N.D. 0.1 ug/1 99 81-120 Fluorene N.D. 0.1 ug/1 99 81-120 Fluorene N.D. 0.1 ug/1 92 75-108 Phenanthrene N.D. 0.1 ug/1 92 75-108 Phenanthrene N.D. 0.1 ug/1 93 81-112  Batch number: 14298WAH026 Sample number(s): 7648547-77648548 Anthracene N.D. 0.1 ug/1 92 94 82-116 3 30 Benzo(a) anthracene N.D. 0.1 ug/1 89 91 81-126 2 30 Benzo(a) pyrene N.D. 0.1 ug/1 96 97 82-116 2 30 Benzo(a) pyrene N.D. 0.1 ug/1 97 98 82-111 1 30 Benzo(g,h,i)perylene N.D. 0.1 ug/1 96 97 82-116 2 30 Benzo(g,h,i)perylene N.D. 0.1 ug/1 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/1 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/1 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/1 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/1 84 85 75-108 1 30 Phenanthrene N.D. 0.1 ug/1 89 89 81-112 1 30 Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.01 ug/1 99 96 60-140 3 20  Batch number: 142976050004A Sample number(s): 7648543-7648548	Benzene	N.D.	0.5	ug/l	89	90	78-120	2	30
Benzo(a) anthracene Benzo(a) pyrene N.D. 0.1 ug/l 104 82-116 Benzo(b) fluoranthene N.D. 0.1 ug/l 109 82-121 Benzo(g,h,i) perylene N.D. 0.1 ug/l 106 Chrysene N.D. 0.1 ug/l 106 N.D. 0.1 ug/l 106 N.D. Chrysene N.D. 0.1 ug/l 100 N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.	Batch number: 14298WAE026	Sample num	mber(s): 76	48543-7648	546				
Benzo(a)pyrene N.D. 0.1 ug/l 104 82-116 Benzo(b) fluoranthene N.D. 0.1 ug/l 109 82-121 Benzo(g,h,i) perylene N.D. 0.1 ug/l 109 82-121 Benzo(g,h,i) perylene N.D. 0.1 ug/l 106 76-128 Chrysene N.D. 0.1 ug/l 99 81-120 Fluorene N.D. 0.1 ug/l 100 80-117 Naphthalene N.D. 0.1 ug/l 92 75-108 Phenanthrene N.D. 0.1 ug/l 93 81-114 Pyrene N.D. 0.1 ug/l 97 81-112  Batch number: 14298WAH026 Sample number(s): 7648547-7648548 Anthracene N.D. 0.1 ug/l 92 94 82-116 3 30 Benzo(a) anthracene N.D. 0.1 ug/l 89 91 81-126 2 30 Benzo(a) pyrene N.D. 0.1 ug/l 96 97 82-116 2 30 Benzo(b) fluoranthene N.D. 0.1 ug/l 96 97 82-116 2 30 Benzo(b) fluoranthene N.D. 0.1 ug/l 97 98 82-121 1 30 Benzo(b) fluoranthene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/l 85 86 81-114 1 30 Pyrene N.D. 0.1 ug/l 89 89 81-112 1 30 Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20  Batch number: 142976050004A Sample number(s): 7648543-7648548	Anthracene	N.D.	0.1	ug/l	101		82-116		
Benzo(b) fluoranthene Benzo(g, h, i) perylene Benzo(g, h, i) perylene N.D. 0.1 ug/1 106 76-128 Chrysene N.D. 0.1 ug/1 100 Fluorene N.D. 0.1 ug/1 100 Fluorene N.D. N.D. 0.1 ug/1 100 Ro-117 Naphthalene N.D. N.D. 0.1 ug/1 92 75-108 Phenanthrene N.D. 0.1 ug/1 93 81-114 Pyrene N.D. 0.1 ug/1 97 Ro-114 Pyrene N.D. 0.1 ug/1 97 Ro-114 Pyrene N.D. 0.1 ug/1 97 Ro-116 Ro-112  Batch number: 14298WAH026 Sample number(s): 7648547-7648548 Anthracene N.D. Ro-11 ug/1 92 Potential Royaldian	Benzo(a)anthracene	N.D.	0.1	ug/l	96		81-126		
Benzo(g,h,i)perylene N.D. 0.1 ug/l 106 76-128 N.D. 0.1 ug/l 99 81-120 Fluorene N.D. 0.1 ug/l 99 81-120 Fluorene N.D. 0.1 ug/l 100 80-117 Naphthalene N.D. 0.1 ug/l 92 75-108 Phenanthrene N.D. 0.1 ug/l 93 81-114 Pyrene N.D. 0.1 ug/l 93 81-114 Pyrene N.D. 0.1 ug/l 97 81-112 Batch number: 14298WAH026 Sample number(s): 7648547-7648548 Anthracene N.D. 0.1 ug/l 89 91 81-126 2 30 Benzo(a) anthracene N.D. 0.1 ug/l 89 91 81-126 2 30 Benzo(a) pyrene N.D. 0.1 ug/l 96 97 82-116 2 30 Benzo(b) fluoranthene N.D. 0.1 ug/l 96 97 82-116 2 30 Benzo(g,h,i)perylene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/l 96 98 76-128 2 30 Fluorene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/l 84 85 75-108 1 30 Phenanthrene N.D. 0.1 ug/l 84 85 75-108 1 30 Phenanthrene N.D. 0.1 ug/l 89 89 81-112 1 30 Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20 Batch number: 142976050004A Sample number(s): 7648543-7648548	Benzo(a)pyrene	N.D.	0.1	ug/l	104		82-116		
Benzo(g,h,i)perylene N.D. 0.1 ug/l 106 76-128 N.D. 0.1 ug/l 99 81-120 Fluorene N.D. 0.1 ug/l 100 80-117 Naphthalene N.D. 0.1 ug/l 92 75-108 Phenanthrene N.D. 0.1 ug/l 92 75-108 Phenanthrene N.D. 0.1 ug/l 93 81-114 Pyrene N.D. 0.1 ug/l 97 81-112 Batch number: 14298WAH026 Sample number(s): 7648547-7648548 Anthracene N.D. 0.1 ug/l 89 91 81-126 2 30 Benzo(a) anthracene N.D. 0.1 ug/l 89 91 81-126 2 30 Benzo(a) pyrene N.D. 0.1 ug/l 96 97 82-116 2 30 Benzo(b) fluoranthene N.D. 0.1 ug/l 96 97 82-116 2 30 Benzo(g,h,i)perylene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/l 84 85 75-108 1 30 Phenanthrene N.D. 0.1 ug/l 89 89 81-112 1 30 Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20 Batch number: 142976050004A Sample number(s): 7648543-7648548	Benzo(b) fluoranthene	N.D.	0.1	uq/l	109		82-121		
Fluorene N.D. 0.1 ug/l 100 80-117 Naphthalene N.D. 0.1 ug/l 92 75-108 Phenanthrene N.D. 0.1 ug/l 93 81-114 Pyrene N.D. 0.1 ug/l 97 81-112  Batch number: 14298WAH026 Anthracene N.D. 0.1 ug/l 92 94 82-116 3 30 Benzo(a) anthracene N.D. 0.1 ug/l 89 91 81-126 2 30 Benzo(a) pyrene N.D. 0.1 ug/l 96 97 82-116 2 30 Benzo(b) fluoranthene N.D. 0.1 ug/l 96 97 82-116 2 30 Benzo(g,h,i)perylene N.D. 0.1 ug/l 97 98 82-121 1 30 Benzo(g,h,i)perylene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene Fluorene N.D. 0.1 ug/l 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/l 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/l 84 85 75-108 1 30 Phenanthrene N.D. 0.1 ug/l 85 86 81-114 1 30 Pyrene N.D. 0.1 ug/l 85 86 81-114 1 30 Pyrene N.D. 0.1 ug/l 89 89 81-112 1 30  Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide Sample number(s): 7648543-7648548	Benzo(q,h,i)perylene	N.D.	0.1		106		76-128		
Naphthalene       N.D.       0.1       ug/l       92       75-108         Phenanthrene       N.D.       0.1       ug/l       93       81-114         Pyrene       N.D.       0.1       ug/l       93       81-114         Batch number: 14298WAH026       Sample number(s): 7648547-7648548       81-112         Anthracene       N.D.       0.1       ug/l       92       94       82-116       3       30         Benzo(a) anthracene       N.D.       0.1       ug/l       89       91       81-126       2       30         Benzo(a) pyrene       N.D.       0.1       ug/l       96       97       82-116       2       30         Benzo(b) fluoranthene       N.D.       0.1       ug/l       97       98       82-121       1       30         Benzo(g,h,i) perylene       N.D.       0.1       ug/l       96       98       76-128       2       30         Chrysene       N.D.       0.1       ug/l       92       93       81-120       1       30         Fluorene       N.D.       0.1       ug/l       90       91       80-117       2       30         Naphthalene       N.D.	Chrysene	N.D.	0.1	uq/l	99		81-120		
Phenanthrene Pyrene N.D. 0.1 ug/l 93 81-114 Pyrene N.D. 0.1 ug/l 97 81-112  Batch number: 14298WAH026 Sample number(s): 7648547-7648548 Anthracene N.D. 0.1 ug/l 92 94 82-116 3 30 Benzo(a) anthracene N.D. 0.1 ug/l 89 91 81-126 2 30 Benzo(a) pyrene N.D. 0.1 ug/l 96 97 82-116 2 30 Benzo(b) fluoranthene N.D. 0.1 ug/l 97 98 82-121 1 30 Benzo(g,h,i) perylene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/l 84 85 75-108 1 30 Phenanthrene N.D. 0.1 ug/l 84 85 75-108 1 30 Pyrene N.D. 0.1 ug/l 89 89 81-112 1 30 Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20 Batch number: 142976050004A Sample number(s): 7648543-7648548	Fluorene	N.D.	0.1	uq/l	100		80-117		
Pyrene         N.D.         0.1         ug/l         97         81-112           Batch number: 14298WAH026         Sample number(s): 7648547-7648548         Sample number(s): 7648547-7648548         Sample number(s): 7648548           Anthracene         N.D.         0.1         ug/l         92         94         82-116         3         30           Benzo(a) anthracene         N.D.         0.1         ug/l         89         91         81-126         2         30           Benzo(a) pyrene         N.D.         0.1         ug/l         96         97         82-116         2         30           Benzo(b) fluoranthene         N.D.         0.1         ug/l         97         98         82-121         1         30           Benzo(g,h,i)perylene         N.D.         0.1         ug/l         96         98         76-128         2         30           Chrysene         N.D.         0.1         ug/l         92         93         81-120         1         30           Fluorene         N.D.         0.1         ug/l         90         91         80-117         2         30           Naphthalene         N.D.         0.1         ug/l         84         85	Naphthalene	N.D.	0.1	uq/l	92		75-108		
Batch number: 14298WAH026	Phenanthrene	N.D.	0.1	uq/l	93		81-114		
Anthracene N.D. 0.1 ug/l 92 94 82-116 3 30 Benzo(a) anthracene N.D. 0.1 ug/l 89 91 81-126 2 30 Benzo(a) pyrene N.D. 0.1 ug/l 96 97 82-116 2 30 Benzo(b) fluoranthene N.D. 0.1 ug/l 97 98 82-121 1 30 Benzo(g,h,i) perylene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/l 84 85 75-108 1 30 Phenanthrene N.D. 0.1 ug/l 85 86 81-114 1 30 Pyrene N.D. 0.1 ug/l 89 89 81-112 1 30 Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20 Batch number: 142976050004A Sample number(s): 7648543-7648548	Pyrene	N.D.	0.1	ug/l	97		81-112		
Anthracene N.D. 0.1 ug/l 92 94 82-116 3 30 Benzo(a) anthracene N.D. 0.1 ug/l 89 91 81-126 2 30 Benzo(a) pyrene N.D. 0.1 ug/l 96 97 82-116 2 30 Benzo(b) fluoranthene N.D. 0.1 ug/l 97 98 82-121 1 30 Benzo(g,h,i) perylene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/l 84 85 75-108 1 30 Phenanthrene N.D. 0.1 ug/l 85 86 81-114 1 30 Pyrene N.D. 0.1 ug/l 89 89 81-112 1 30 Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20 Batch number: 142976050004A Sample number(s): 7648543-7648548	Batch number: 14298WAH026	Sample num	mber(s): 76	48547-7648	548				
Benzo(a) anthracene N.D. 0.1 ug/l 89 91 81-126 2 30 Benzo(a) pyrene N.D. 0.1 ug/l 96 97 82-116 2 30 Benzo(b) fluoranthene N.D. 0.1 ug/l 97 98 82-121 1 30 Benzo(g,h,i) perylene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/l 84 85 75-108 1 30 Phenanthrene N.D. 0.1 ug/l 85 86 81-114 1 30 Pyrene N.D. 0.1 ug/l 89 89 81-112 1 30 Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20 Batch number: 142976050004A Sample number(s): 7648543-7648548		-				94	82-116	3	3.0
Benzo (a) pyrene N.D. 0.1 ug/l 96 97 82-116 2 30 Benzo (b) fluoranthene N.D. 0.1 ug/l 97 98 82-121 1 30 Benzo (g,h,i) perylene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/l 84 85 75-108 1 30 Phenanthrene N.D. 0.1 ug/l 85 86 81-114 1 30 Pyrene N.D. 0.1 ug/l 89 89 81-112 1 30  Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20  Batch number: 142976050004A Sample number(s): 7648543-7648548									
Benzo(b) fluoranthene       N.D.       0.1       ug/l       97       98       82-121       1       30         Benzo(g,h,i) perylene       N.D.       0.1       ug/l       96       98       76-128       2       30         Chrysene       N.D.       0.1       ug/l       92       93       81-120       1       30         Fluorene       N.D.       0.1       ug/l       90       91       80-117       2       30         Naphthalene       N.D.       0.1       ug/l       84       85       75-108       1       30         Phenanthrene       N.D.       0.1       ug/l       85       86       81-114       1       30         Pyrene       N.D.       0.1       ug/l       89       89       81-112       1       30         Batch number:       142980004A       Sample number(s):       7648543-7648549       7648543-7648548       7648543-7648548       7648543-7648548       7648543-7648548       7648543-7648548       7648543-7648548       7648543-7648548       7648543-7648548       7648543-7648548       7648543-7648548       7648543-7648548       7648543-7648548       7648543-7648548       7648543-7648548       7648543-7648548       7648543-7648548       7648									
Benzo (g,h,i) perylene N.D. 0.1 ug/l 96 98 76-128 2 30 Chrysene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/l 84 85 75-108 1 30 Pyrene N.D. 0.1 ug/l 85 86 81-114 1 30 Pyrene N.D. 0.1 ug/l 89 89 81-112 1 30 Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20 Batch number: 142976050004A Sample number(s): 7648543-7648548		N.D.	0.1		97	98	82-121	1	3.0
Chrysene N.D. 0.1 ug/l 92 93 81-120 1 30 Fluorene N.D. 0.1 ug/l 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/l 84 85 75-108 1 30 Phenanthrene N.D. 0.1 ug/l 85 86 81-114 1 30 Pyrene N.D. 0.1 ug/l 85 86 81-114 1 30 Pyrene N.D. 0.1 ug/l 89 89 81-112 1 30 Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20 Batch number: 142976050004A Sample number(s): 7648543-7648548									
Fluorene N.D. 0.1 ug/l 90 91 80-117 2 30 Naphthalene N.D. 0.1 ug/l 84 85 75-108 1 30 Phenanthrene N.D. 0.1 ug/l 85 86 81-114 1 30 Pyrene N.D. 0.1 ug/l 89 89 81-112 1 30 Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20 Batch number: 142976050004A Sample number(s): 7648543-7648548									
Naphthalene       N.D.       0.1       ug/l       84       85       75-108       1       30         Phenanthrene       N.D.       0.1       ug/l       85       86       81-114       1       30         Pyrene       N.D.       0.1       ug/l       89       89       81-112       1       30         Batch number:       142980004A       Sample number(s):       7648543-7648549       50       76			0.1					2	3.0
Phenanthrene N.D. 0.1 ug/l 85 86 81-114 1 30 Pyrene N.D. 0.1 ug/l 89 89 81-112 1 30 Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20 Batch number: 142976050004A Sample number(s): 7648543-7648548									
Pyrene N.D. 0.1 ug/l 89 89 81-112 1 30  Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20  Batch number: 142976050004A Sample number(s): 7648543-7648548									
Batch number: 142980004A Sample number(s): 7648543-7648549 Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20 Batch number: 142976050004A Sample number(s): 7648543-7648548									
Ethylene dibromide N.D. 0.010 ug/l 99 96 60-140 3 20 Batch number: 142976050004A Sample number(s): 7648543-7648548	Tylene	11.12.	0.1	49/1	0,5	03	01 112	-	30
Batch number: 142976050004A Sample number(s): 7648543-7648548	Batch number: 142980004A	Sample num	mber(s): 76	48543-7648	549				
The state of the s	Ethylene dibromide	N.D.	0.010	ug/l	99	96	60-140	3	20
	Batch number: 142976050004A	Sample num	mber(s): 76	48543-7648	548				
	Lead	-					80-120		

#### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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### Quality Control Summary

Client Name: Stantec Group Number: 1513343

Reported: 11/05/14 at 08:35 AM

#### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS <u>%REC</u>	MSD %REC	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG Conc	DUP <u>Conc</u>	DUP RPD	Dup RPD <u>Max</u>
Batch number: Z143002AA	Sample	number(s)	: 7648543	-764854	9 UNSP	K: P649231			
Benzene	98	98	72-134	0	30				
1,2-Dichloroethane	98	96	63-142	3	30				
Ethylbenzene	107	107	71-134	0	30				
Isopropylbenzene	109	109	75-128	0	30				
Methyl Tertiary Butyl Ether	92	91	72-126	1	30				
Toluene	107	105	80-125	1	30				
1,2,4-Trimethylbenzene	106	106	72-130	1	30				
1,3,5-Trimethylbenzene	106	106	65-132	1	30				
Xylene (Total)	108	107	79-125	1	30				
Batch number: 14298WAE026	Sample	number(s)	: 7648543	-764854	6 UNSP	K: P648530			
Anthracene	101	92	78-114	10	30				
Benzo(a) anthracene	97	84	77-122	16	30				
Benzo(a)pyrene	103	87	73-125	17	30				
Benzo(b) fluoranthene	104	90	73-126	15	30				
Benzo(g,h,i)perylene	103	87	66-134	18	30				
Chrysene	98	86	78-128	14	30				
Fluorene	98	92	77-122	7	30				
Naphthalene	95	91	68-118	5	30				
Phenanthrene	92	85	76-112	10	30				
Pyrene	95	85	79-111	12	30				
Batch number: 142980004A	Sample	number(s)	: 7648543	-764854	9 UNSP	K: 7648543	BKG: 7648544		
Ethylene dibromide	96		60-140			N.D.	N.D.	0 (1)	30
Batch number: 142976050004A	Sample	number(s)	: 7648543	-764854	8 UNSP	K: P646247	BKG: P646247	,	
Lead	102	101	75-125	1	20	0.10 J	N.D.	200* (1)	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: UST Unleaded/Leaded minus NAPH

Batch number: Z143002AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7648543	98	96	99	96
7648544	96	96	98	99
7648545	98	96	100	98
7648546	95	95	100	102
7648547	95	94	101	103
7648548	100	96	100	100
7648549	99	100	100	96
Blank	99	98	98	94

#### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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### Quality Control Summary

Client Name: Stantec Group Number: 1513343 Reported: 11/05/14 at 08:35 AM Surrogate Quality Control LCS 96 96 MS 96 95 99 102 MSD 99 103 77-113 Limits: 80-116 80-113 78-113 Analysis Name: PAHs by 8270 Batch number: 14298WAE026 Terphenyl-d14 Nitrobenzene-d5 2-Fluorobiphenyl 7648543 86 81 62 7648544 71 91 85 7648545 80 71 42 7648546 82 81 88 Blank 88 89 101 LCS 89 89 97 MS 92 88 62 MSD 89 84 47 Limits: 60-123 67-116 40-147 Analysis Name: PAHs by 8270 Batch number: 14298WAH026 Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 7648547 64\* 39\* 69 80 7648548 82 61 Blank 85 82 94 82 LCS 86 91 LCSD 88 84 90 Limits: 60-123 67-116 40-147 Analysis Name: EDB in Wastewater Batch number: 142980004A 1,1,2,2-Tetrachloroethane 7648543 7648544 112 7648545 121 7648546 114 7648547 117 7648548 116 7648549 110 Blank 90 DUP 105 LCS 94 LCSD 94 MS 91

#### \*- Outside of specification

46-136

Limits:

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

# Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Acct. # 11183

For Eurofins Lancaster Laboratories use only
Group # 15 | 33 | 3 Sample # 76 | 85 | 3 | 49
Instructions on reverse side correspond with circled numbers.

COC #324403

1) Client Information	<u> </u>				4)	Matrix			5		Α	nalys	sis F	Requ	este	d			For Lab Us	se Only	
Client:	Acct. #:											Prese	rvati	on C	odes				FSC:		
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Sample Identification	Colle	ected	Grab	Composite		Water	Other:	Total #	21 Al 52 hoell 5 W 346 6010	Die 74 T.		Comene Ethylben	MTBE	15 / J	Anna	120 Cg	222	raine x			
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## **Explanation of Symbols and Abbreviations**

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

**Dry weight**basis
Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C - result confirmed by reanalysis.

**J** - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

	Organic Qualifiers		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
Ε	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

### Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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